

Powered by excellence



## Battery-powered tools bee-system II

for all orthopaedic indications  
and large bone surgery

# bee-system II

## Drill & Ream machine

The new bee-system II universal Drill and Ream handpiece for all orthopaedic indications and large bone surgery. Drill & Ream machine with Right/Left (CW and CCW) rotation lever for oscillating mode on/off and trigger for manual speed regulation with ring for switch Drill and Ream mode.

- **With Right/Left**  
(forward/backward rotation)
- **Lock position**
- **Oscillating mode on/off**
- **Continuously adjustable rotation speed**
- **Drill with 2 speed ranges,**  
switch to change from Drill to Ream mode



### Technical data:

Handpiece dimensions (without attachment)	162 x 93 x 198 mm
Weight of handpiece with powerpack	1850 g
Continuously adjustable rotation speed	0 - 1000 rpm (drill mode)/0 - 250 rpm (ream mode)
Cannulation	Ø 4.3 mm
Protection class	B, EN 60601-1
Power supply	Internal battery
Order no.	F-31-100-00

# bee-system II

## Drill machine standard

The new bee-system II small handpiece for all drill attachments incl. Kirschner pin driver with continuously adjustable rotation speed.











- With Right/Left (CW/CCW) rotation
- Lock position
- Continuously adjustable rotation speed








#### Technical data:

Handpiece dimensions (without attachment)	137 x 93 x 197 mm
Weight of handpiece with powerpack	1660 g
Continuously adjustable rotation speed	0 - 1000 rpm
Cannulation	Ø 4.3 mm
Protection class	B, EN 60601-1
Power supply	Internal battery
Order no.	F-31-150-00

# bee-system II

## Accessories for Drill & Ream and Drill machines standard

Accessories for Drill & Ream and Drill machines standard		for Drill & Ream	for Drill standard
	<b>Wire/Pin Driver</b> for Drill & Ream machine F-30-100-00 for use with K-wires with: Ø 1.0 mm (Drill mode) to Ø 4.0 mm (Ream mode)..... F-30-100-10	•	
	<b>Wire/Pin Driver</b> for Standard Drill machine F-30-150-00 for use with K-wires with: Ø 1.0 mm (Drill mode) to Ø 4.0 mm (Ream mode)..... F-30-100-15		•
	<b>Extension guide</b> for wire/pin driver..... F-30-100-19	•	•
	<b>Adapter</b> for radiolucent drill guide ..... F-30-100-25	•	•
	<b>AO connector</b> small, Ø 2.5 mm ..... F-30-100-50	•	•
	<b>AO connector</b> large, Ø 4.3 mm..... F-30-100-51	•	•
	<b>1/4" connector</b> Ø 4.3 mm..... F-30-100-52	•	•
	<b>Hudson connector</b> Ø 4.3 mm..... F-30-100-53	•	•

Accessories for Drill & Ream and Drill machines standard		for Drill & Ream	for Drill standard
	<b>Harris connector</b> Ø 4.3 mm..... F-30-100-54	•	•
	<b>Hexagonal connector SW6</b> Ø 4.3 mm..... F-30-100-55	•	•
	<b>DIN-Coupling</b> ..... F-30-100-56	•	•
	<b>Drill attachment Jakobs chuck</b> small with key, Ø 0 - 4.0 mm..... F-30-100-60	•	•
	<b>Drill attachment Jakobs chuck</b> large with key, Ø 0 - 6.5 mm..... F-30-100-61	•	•
	<b>Röhms three jaw chuck</b> with key, max Ø 7.0 mm..... F-30-100-62	•	•
	<b>Quick action chuck</b> with ratchet, max Ø 6.5 mm..... F-30-100-63	•	•
	<b>Quick action chuck</b> without ratchet, max Ø 6.0 mm..... F-30-100-64	•	•
	<b>Albrecht quick action chuck</b> without ratchet small, max Ø 3.5 mm..... F-30-100-65	•	•

# bee-system II

## Oscillating Reaming machine

The new Oscillating Reaming machine for use in anterior cruciate ligament reconstruction.






- Lock position
- Continuously adjustable oscillation speed








### Technical data:

Handpiece dimensions (without attachment)	140 x 111 x 206 mm
Weight of handpiece with powerpack	1550 g
Continuously adjustable rotation speed	0 - 9000 rpm (Step 1)/0 - 11000 rpm (Step 11)
Protection class	B, EN 60601-1
Power supply	Internal battery
Order no.	F-31-700-00

Special adapted for cannulated Oscillating Reaming machine F-31-700-00. Tools for harvesting quadriceps tendon, patellar tendon and harvesting cylindrical bone blocks.

For quadriceps- or patella tendon harvesting		
	<b>Hollow burr</b> sz. 8 (ID 8,4 mm) ..... 8869.841 sz. 9 (ID 9.4 mm) ..... 8869.843 sz. 10 (ID 10.4 mm) ..... 8869.844	<ul style="list-style-type: none"> <li>• Cutting teeth only on 2/3 of the distal burr avoids a too big defect on the patella when harvesting the bone block</li> <li>• Hollow burs of different diameters allow to harvest anatomically suitable graft diameters for each patient</li> </ul>
	<b>Suture puller</b> WL 350 mm (Ø 4 mm) ..... 8869.921	<ul style="list-style-type: none"> <li>• Passing the sutures through and pulling the graft into the hollow burr</li> </ul>
	<b>Bone elevator</b> sz. 8 (inside 8.4 mm) ..... 8868.921 sz. 9 (inside 9.4 mm) ..... 8868.922 sz. 10 (inside 10.4 mm) ..... 8868.923	<ul style="list-style-type: none"> <li>• Loosen the bone block from the patella after using a hollow burr</li> </ul>
	<b>Pusher straight</b> WL 110 mm ..... 8869.993	<ul style="list-style-type: none"> <li>• Reimplanting and press-fit fixation of BT or BTB grafts in the femoral tunnel</li> <li>• Straight version for use via anteromedial portal</li> <li>• Curved version for use via transtibial portal</li> </ul>
	<b>Curved plunger</b> WL 110 mm ..... 8869.991	

Auxiliary set of hollow drills for harvesting cylindrical bone blocks		
	<b>Hollow drill and ejector</b> sz. 8 (OD 8,5 mm) ..... 8869.849 + 8869.850 sz. 9 (OD 9.5 mm) ..... 8869.851 + 8869.852 sz. 10 (OD 10,5 mm) ..... 8869.853 + 8869.854	<ul style="list-style-type: none"> <li>• Application of the hollow drill with Oscillating Reaming machine F-31-700-00</li> <li>• Hollow drills are simultaneously guided via the drill guide, and using cannulated ejectors – safe tunnel positioning</li> </ul>
	<b>Base section</b> for tibial drill ..... 8874.111	<ul style="list-style-type: none"> <li>• Mounting the drill guides for hollow drill and guide wire</li> <li>• Compatible with standard aiming hook 8874.121 or spoon 8874.123</li> </ul>
	<b>Aiming hook tibial ACL</b> ..... 8874.121  <b>Aiming spoon tibial ACL</b> ..... 8874.123	Compatible with Base section 8874.111
	<b>Alignment wire guide hollow drill</b> sz. 2.5 ..... 8874.151	<ul style="list-style-type: none"> <li>• Directs the guide wire to position the tibial tunnel</li> <li>• Compatible with Base section 8874.111</li> </ul>
	<b>Drill guide for hollow drill bit</b> sz. 8 ..... 8874.150 sz. 9 ..... 8874.152 sz. 10 ..... 8874.153	<ul style="list-style-type: none"> <li>• Guides the hollow drill to remove a tibial bone block</li> <li>• Compatible with Base section 8874.111</li> </ul>

# bee-system II

## Oscillating saws

Oscillating saws are available in two versions: Oscillating saw, 4° (lateral movement) for Synthes/AO saw blades and oscillating saw for Stryker sawblades.

### Sagittal oscillating saw in bone surgery:

- With rotatable saw blade clamping in 45° steps (8 positions)
- Manual speed adjustment and oscillating mode
- Shift lever for operating in two different speeds
- With AO-Synthes and Stryker connection of the saw blade



### Technical data:

Handpiece dimensions (without attachment)	166 x 111 x 211 mm
Weight of handpiece with powerpack	1760 g
Continuously adjustable rotation speed	0 - 9000 cpm (Step I)/0 - 11000 cpm (Step II)
Protection class	B, EN 60601-1
Power supply	Internal battery
Order no. oscillating saw 4° for Synthes/AO saw blades	F-31-300-00
Order no. oscillating saw 4° for Stryker saw blades	F-31-310-00



# bee-system II

## Sternum saw

Sternum saw with protection sleeve and keyless chuck with continuously adjustable rotation speed and switch lever from Step I to II. Basic model can be used as reciprocating saw.

Rotate the attachment /chuck to the desired position. Locking always at 90°.



- **Precise cutting guide**  
with good visibility conditions
- **Easy clamping of sawblade**  
(no tools required)
- **Use of saw blades**  
with Stryker adaption
- **Attachment of protection sleeve**  
in 4 different positions possible  
(locking at 90°)
- **Basic model to be used as**  
**reciprocating**

### Technical data:

Handpiece dimensions (without attachment)	185 x 111 x 206 mm
Weight of handpiece with powerpack	1750 g
Continuously adjustable rotation speed	0 - 7500 cpm (Step 1)/0 - 10000 cpm (Step 11)
Protection class	B, EN 60601-1
Power supply	Internal battery
Order no. (includes keyless sternum attachment F-30-400-05)	F-31-601-00

# bee-system II

One powerpack for all machines

The innovative battery-driven power-system concept with newest Li-Ion battery technology and longer lifetime. With new ergonomic design, improved closing mechanism and easier cleaning and maintenance.

Powerpack, universal drive unit for use with all bee-system handpieces, newest Li-Ion technology.

## The heart of the system:

- **1 powerpack for all handpieces**
- **Includes control unit, battery, electronics, and motor** – united in one powerpack
- **Automatic recognition** of the performance parameters according to the used handpiece
- **Unique durability,** no need to sterilize delicate components
- **Latest battery technology** – long lifetime, no memory effect
- **Display for battery charging status:** green, orange, red (discharged)
- **White LEDs for additional illumination of the OR field**



## Technical data:

Dimensions	89 x 87 x 102 mm
Weight	760 g
Type	Li-ion
Max. voltage	16.8 V
Operating voltage (rated voltage)	144V
Capacity	2.1 Ah
Typical charging time period	< 90 min
Order no.	F-30-900-00

# bee-system II

## Battery charger

All charging units indicate the charging status of the powerpacks. In addition to the charging status at the powerpack, the charger displays the charging capacity per powerpack slot.










Technical data:	
Dimensions	1 charging slot: 157 x 140 x 79 mm 2 charging slots: 240 x 190 x 130 mm 4 charging slots: 520 x 190 x 130 mm
Weight	1 charging slot: 1740 g 2 charging slots: 4939 g 4 charging slots: 8700 g
Type	Li-ion battery charger
Input	100 - 240 V AC 50 - 60 Hz 0,9 A
Output	16,8 V DC 2,0 A
Order no. Battery charger (1 charging slot)	F-30-900-50
Order no. Battery charger (2 charging slots)	F-30-900-51
Order no. Battery charger (4 charging slots)	F-30-900-52

# bee-system II

## Accessories



Accessories for bee-system II	
	<b>Tray with lid, for 1 machine</b> without rinsing set, reusable..... F-31-910-13
	<b>Tray with lid, for 2 machines</b> without rinsing set, reusable..... F-31-910-18
	<b>Rinsing set</b> reusable..... F-30-910-40
	<b>Cleaning brush set</b> reusable..... F-30-910-50
	<b>Hi-tech oil pen</b> ..... F-30-900-61
	<b>Sterile funnel</b> for insertion of powerpack F-30-900-00 under sterile conditions, reusable..... F-30-900-20
	<b>Lubrication service frame</b> reusable..... F-30-900-10
	<b>Poag cable for charging units</b> for connecting F-30-900-50 or F-30-900-51 or F-30-900-52 to potential equalization..... F-30-900-57

Subject to modifications. Please note that some products may not be available in all countries. Please always take note of the information that is provided with the product. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

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